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LISTING OF CLAIMS:

This listing of claims will replace all prior versions of claims in the application:

(Withdrawn) A method of forming high aspect ratio copper structures, 1 1. 2 comprising; 3 depositing a photoresist; 4 performing a reactive ion etch (RIE) process to form a trench; 5 depositing Cu; 6 performing single chemical mechanical polishing (CMP) process to remove 7 selected amounts of said photoresist and Cu. 1 2. (Withdrawn) A method as in claim 1 wherein said single CMP is performed 2 using a slurry comprising: Si02. Ammonium Persulfate, and Benzotriazole (BTA). 1 3. (Withdrawn) A method as in claim 1 further comprising depositing Al₂O₃. (Withdrawn) A method as in claim 1 further comprising depositing a SiO₂ hard 1 4. 2 mask, and wherein said CMP process removes said hard mask material at 3 substantially the same rate as said photoresist, and Cu. 1 5. (Withdrawn) A method as in claim 1 further comprising depositing a Ta barrier 2 layer, and wherein said CMP process removes said Ta at substantially the same 3 rate as said photoresist, and Cu.

1	6.	(Original) A method for forming a Cu coil for use in a magnetic head,			
2		comprising:			
3		Forming a magnetic pole structure;			
4		depositing a photoresist;			
5		depositing a hard mask;			
6		patterning said hard mask to define a coil pattern;			
7		performing a material removal process to form at least one trench according to			
8		said coil pattern;			
9		depositing Ta			
10	depositing Cu; and				
11	performing a chemical mechanical polishing (CMP) process using a slurry				
12		comprising;			
13		Amonium Persulfate, Benzotriazole (BTA), and SiO ₂ .			
1	7.	(Original) method as in claim 6, wherein said depositing Cu includes sputter			
2		depositing a seed layer of Cu and then electroplating Cu.			
1	8.	(Original) A method as in claim 6 further comprising adjusting a ratio of			
2		Ammonium Persulfate and Benzotriazole (BTA) so that said CMP process			
3		removes material from said photoresist, hard mask, Ta, and Cu at substantially the			
4		Came rate			

- 1 9. (Original) A method as in claim 6 further comprising forming a magnetic
- 2 pedestal and a magnetic back gap extending from said pole structure and wherein
- a portion of said photoresist is deposited between said magnetic pedestal and said
- 4 magnetic back gap.
- 1 10. (Original) A method as in claim 10, wherein said magnetic pedestal and said
- 2 back gap comprise NiFe.
- 1 11. (Original) A method as in claim 6, further comprising performing said CMP
- 2 process sufficiently to form a substantially planar surface including said
- 3 photoresist, and said Cu.
- 1 12. (Original) A method as in claim 6 further comprising performing said CMP
- 2 process sufficiently to form a substantially planar surface including said
- 3 photoresist, said Cu and said Ta.
- 1 13. (Original) A method as in claim 6, further comprising hard baking said
- 2 photoresist before performing said material removal process.
- 1 14. (Original) A method as in claim 6 wherein said material removal process
- 2 comprises reactive ion etching (RIE).

1	15.	(Original)	A method as in claim 6 further comprising depositing alumina		
2		(Al ₂ O ₃).			
1	16.	(Original)	A method as in claim 6		
2		further comprising:			
3			forming a magnetic pedestal and a magnetic back gap extending		
4		from s	said pole structure; and		
5			depositing alumina (Al2O3) and wherein:		
6			a portion of said photoresist is deposited between said		
7			magnetic pedestal and said magnetic back gap; and		
8		•	said material removal process removes said material from		
9			said magnetic pedestal, magnetic back gap, photoresist, hard mask,		
10			Ta, alumina and Cu at substantially the same rate.		
1	17.	(Withdrawn)	A slurry for use in chemical mechanical polishing, comprising:		
2		SiO ₂ ;			
3		Amonium Persulfate ((NH ₄) ₂ S2O ₈); and			
4		Benzotriazole	BTA.		
1	8. (Withdrawn) A	method of forming a small Cu structure, comprising:		
depositing a photoresist;					
performing a material removal process form a cavity in said photoresist;					

depositing Cu; and

performing a chemical mechanical polishing process using a slurry comprising:

SiO₂ Ammonium Persulfate, and Benzotriazole (BTA).